Index of Claims

Application/Control No.

09/892,875

Examiner

YOKOKURA, HIDENORI

Applicant(s)/Patent under Reexamination

Art Unit

Thu Ha T. Nguyen

2155

| <b>√</b> | Rejected |
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| =        | Allowed  |

(Through numeral)
Cancelled

Restricted

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| Claim Date   |                            |               |                                                  | Claim Date   |                |          |                |          |               |          | Cla       | im          | Date     |                 |          |               |                                         |                                                                             |          |                                                  |      |          |            |                                                  |                 |          |          |          |          |               |           |          |
|--------------|----------------------------|---------------|--------------------------------------------------|--------------|----------------|----------|----------------|----------|---------------|----------|-----------|-------------|----------|-----------------|----------|---------------|-----------------------------------------|-----------------------------------------------------------------------------|----------|--------------------------------------------------|------|----------|------------|--------------------------------------------------|-----------------|----------|----------|----------|----------|---------------|-----------|----------|
|              | -                          |               |                                                  |              |                |          |                |          |               |          |           |             | 78       | П               |          |               |                                         |                                                                             |          |                                                  | ı    |          | al         |                                                  |                 | T        | П        | Ī        |          | П             |           |          |
| Final        | Original                   | 8/28/05       |                                                  |              |                |          |                |          |               |          |           | Final       | Original |                 | -        |               |                                         |                                                                             |          |                                                  |      | Final    | Original   |                                                  |                 |          | - 1      |          | 1        |               |           |          |
| iĒ           | Ĕ                          | 3/28          |                                                  |              |                |          |                |          |               |          |           | 谎           | Ę        |                 |          |               | 1                                       |                                                                             |          |                                                  |      | iĒ       | ξ          |                                                  |                 |          | - 1      | 1        |          |               | ı         |          |
|              |                            | _             |                                                  |              |                |          |                |          |               |          |           |             |          |                 |          |               | _                                       | $\perp$                                                                     | $\perp$  |                                                  |      |          |            |                                                  |                 | ╝        | ┙        |          |          | $\perp$       |           |          |
| 1            | 0                          | =             | L.                                               | ,            |                |          |                |          |               |          |           |             | 51       |                 |          | $\perp$       |                                         |                                                                             |          |                                                  |      |          | 101        |                                                  | $\perp$         | $\perp$  | $\dashv$ |          |          | $\dashv$      | $\sqcup$  |          |
| 2            | 2                          | =             |                                                  |              |                |          |                |          |               |          |           |             | 52       |                 | $\perp$  |               |                                         |                                                                             |          |                                                  |      |          | 102        |                                                  |                 | $\perp$  |          |          |          | $\perp$       |           |          |
| 3            | 3                          | =             | _                                                |              |                |          |                |          |               |          |           |             | 53       | $\sqcup$        |          |               | $\perp$                                 |                                                                             | 4        |                                                  |      |          | 103        | $\Box$                                           |                 | 4        | 4        | _        | _        | 4             | $\dashv$  | _        |
| 4            | 4                          | =             |                                                  | Щ            |                |          | _              |          | Ш             |          |           |             | 54       | $\sqcup$        | 4        | _             | $\perp$                                 | _                                                                           |          | Ш                                                |      |          | 104        |                                                  | $\perp$         | 4        | 4        | _        | 4        | 4             | 4         |          |
| _            | 5                          |               | <u> </u>                                         |              |                | _        |                |          |               | _        |           |             | 55       | $\sqcup$        | $\dashv$ | $\bot$        | ↓                                       | _                                                                           | 4        | 1                                                |      |          | 105        | $\square$                                        | $\perp$         | 4        | -        | _        | _        | $\dashv$      | 4         | _        |
| 5            | 6                          | =             | <u> </u>                                         | _            |                | -        | -              | -        | $\perp$       | _        |           |             | 56       | $\vdash \vdash$ | 4        | +             | 1                                       |                                                                             | +-       | <b> </b>                                         | -    |          | 106        |                                                  | $\dashv$        | 4        | -        | -        | $\dashv$ | 4             | 4         | _        |
|              | 1                          |               | _                                                |              | L.             |          |                |          |               | _        |           |             | 57       | $\vdash$        | 4        | +             | 1                                       | $\dashv$                                                                    |          | $\vdash$                                         | -    |          | 107        | $\Box$                                           | -               | 4        | 4        | -        | -        | -             | -         | ᅴ        |
| <u> </u>     | В                          |               | _                                                |              |                |          | _              | _        |               | _        |           |             | 58       | $\sqcup$        | +        | - -           | ╄                                       | $\dashv$                                                                    | -        | $\square$                                        | -    |          | 108        | $\square$                                        |                 | 4        | $\dashv$ | -        | $\dashv$ | $\dashv$      |           |          |
| <u> </u>     | 9                          | _             | ⊢                                                |              | $\vdash$       | -        | -              |          | -             |          |           |             | 59       | <del>   </del>  | -+       | - -           | ╆                                       | +                                                                           | +        | $\vdash$                                         | -    |          | 109        |                                                  | $\dashv$        | $\dashv$ | $\dashv$ |          | -        | $\dashv$      |           | ႕        |
| <u> </u>     | 10<br>11                   |               | ⊢                                                | $\vdash$     | $\vdash$       | Н        | $\vdash\vdash$ | $\dashv$ | -             |          |           | <u> </u>    | 60       | $\vdash \vdash$ | +        | +             | +-                                      | +                                                                           | +-       | +                                                | ŀ    |          | 110        | $\vdash \vdash$                                  | $\vdash$        | +        | +        | $\dashv$ | $\dashv$ | $\dashv$      | -+        | ᅴ        |
|              |                            |               | <del> </del>                                     | -            | -              | $\vdash$ | $\vdash\vdash$ | $\vdash$ | $\vdash$      | $\dashv$ |           |             | 61       | $\vdash$        | +        | +             | +                                       | +                                                                           | +        | +                                                | ŀ    |          | 111<br>112 | $\vdash \vdash$                                  | $\dashv$        | +        | $\dashv$ |          |          | $\dashv$      | $\dashv$  | $\dashv$ |
|              | 12<br>18                   |               | ├                                                | $\vdash$     | Н              | $\vdash$ | $\vdash$       | $\vdash$ |               | -        |           | ļ           | 62<br>63 | $\vdash$        | +        | +-            | 1                                       | +                                                                           | +        | +                                                | ŀ    |          | 113        | $\vdash$                                         | -               | +        | $\dashv$ | -        | $\dashv$ | $\dashv$      | $\dashv$  | ᅴ        |
| -            | 4                          | =             | ├                                                | -            | $\vdash$       | Н        | $\vdash\vdash$ | $\vdash$ | $\dashv$      | -        |           | $\vdash$    | 64       | ┝               | +        | +             | +-                                      |                                                                             |          | <del>                                     </del> | ŀ    | $\dashv$ | 114        | $\vdash$                                         | $\dashv$        | $\dashv$ | $\dashv$ | $\dashv$ |          | $\dashv$      | $\dashv$  | $\dashv$ |
| 6            |                            | $\overline{}$ | ⊢                                                | $\vdash$     | $\vdash$       | Н        | Н              | Н        | $\rightarrow$ | _        |           |             | 65       | ⊢⊹              | +        |               | ╁┈                                      | -                                                                           | +        | +                                                | 1    |          | 115        | -                                                | -               | $\dashv$ | $\dashv$ | $\dashv$ | ┥        | $\dashv$      | $\dashv$  | ႕        |
| 8            | 15<br>16                   | u u           | ├-                                               | $\vdash$     | $\vdash$       | $\vdash$ | Н              | Н        |               | $\dashv$ |           | -           | 66       | $\vdash$        | +        | +             | ₩                                       | +                                                                           | +        | +                                                | ŀ    |          | 116        | $\vdash$                                         | -               | +        | $\dashv$ | $\dashv$ | -        | $\dashv$      | $\dashv$  | ᅱ        |
| 9            | 17                         | =             | -                                                | $\vdash$     | $\vdash$       | $\vdash$ | Н              | $\vdash$ | $\dashv$      |          |           | $\vdash$    | 67       | $\vdash$        | +        | +             | ╁                                       | +                                                                           | +-       | +                                                | ŀ    |          | 117        | $\vdash$                                         | $\vdash$        | +        | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$      | $\dashv$  | ᅱ        |
| 3            | 18-                        | -             | -                                                |              | -              | Н        |                | H        |               |          |           |             | 68       | 1               | $\dashv$ | +             | +                                       |                                                                             | +-       | +-                                               | ŀ    |          | 118        | $\dashv$                                         | $\dashv$        | $\dashv$ | $\dashv$ | ᆉ        | $\dashv$ | -+            | $\dashv$  | $\dashv$ |
| 10           | 19                         | =             | -                                                | -            | -              | Н        | Н              | Н        | -             | -        |           | <del></del> | 69       | $\vdash$        | $\dashv$ | +             | +                                       | Ť                                                                           | +        | H                                                | ł    |          | 119        | $\dashv$                                         | $\dashv$        | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$      | $\dashv$  | ⊣        |
| 10           | 20                         | i –           | -                                                | $\vdash$     |                | Н        | -              | -        | $\dashv$      | -        |           | <b></b> -   | 70       | -               | $\dashv$ |               | ╁                                       |                                                                             | +-       | +                                                | ł    |          | 120        | $\dashv$                                         | -               | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$      | $\dashv$  | 一        |
|              | 41                         | -             | -                                                | H            |                | Н        | _              |          | $\dashv$      | -        |           |             | 71       |                 | $\dashv$ | +-            | +                                       | $\dashv$                                                                    | +        | +-                                               | ł    |          | 121        | $\vdash$                                         | $\dashv$        | +        | ᆉ        | -+       | $\dashv$ | $\dashv$      | $\dashv$  | 一        |
| <del></del>  |                            |               |                                                  | Н            | $\vdash$       | Н        | $\vdash$       | $\vdash$ | $\dashv$      |          |           | $\vdash$    | 72       | $\vdash$        | $\dashv$ | +             | +                                       | -                                                                           | +-       | +-1                                              | ŀ    | -        | 122        | $\vdash$                                         | $\vdash$        | $\dashv$ | $\dashv$ | -        | $\dashv$ | $\dashv$      | $\dashv$  | 一        |
|              | 表                          |               | $\vdash$                                         | $\vdash$     | $\vdash$       | Н        | Н              | Н        | $\dashv$      | _        |           |             | 73       | +               | $\dashv$ |               | +                                       | -                                                                           | +        | +                                                | ŀ    |          | 123        | $\dashv$                                         | - †             | $\dashv$ | 7        | -        | $\dashv$ | $\dashv$      | $\dashv$  | ᅱ        |
| -            | <del>भ स्र स्ट स्ट</del>   |               | $\vdash$                                         |              | -              | H        |                |          | $\neg$        | _        |           |             | 74       | l l             | 7        |               | +                                       |                                                                             | +        | <del>   </del>                                   | ŀ    | -        | 124        |                                                  |                 | 十        | _        | $\neg$   | ┪        | 十             | ┪         | ᅥ        |
|              | <del>25</del>              | _             | -                                                |              | $\vdash$       | Н        | -              |          |               |          |           |             | 75       |                 | $\dashv$ | +             | †                                       |                                                                             | +        | $\vdash$                                         | ŀ    |          | 125        |                                                  | $\neg \uparrow$ | $\dashv$ | ╛        | ┪        | ┪        | 十             | 7         | ᅱ        |
|              | 16                         | _             |                                                  | -            | $\vdash$       | Н        | _              |          | T             | _        |           |             | 76       |                 | $\top$   | _             | T                                       | -                                                                           | +        | $\Box$                                           | ľ    |          | 126        |                                                  | $\vdash$        | ┪        | ╛        | 一        | _        | _             | ┪         | ᅥ        |
| 11           | (27)                       | =             |                                                  |              |                |          |                |          |               |          |           |             | 77       |                 | 十        |               | <b>†</b>                                |                                                                             | _        |                                                  | ľ    | -        | 127        | $\Box$                                           |                 | 7        | コ        | 寸        |          | $\dashv$      | ヿ         | ヿ        |
|              | 28                         |               |                                                  |              |                |          |                |          |               |          |           |             | 78       |                 |          |               |                                         |                                                                             |          |                                                  | Ī    |          | 128        |                                                  |                 | 丁        |          | $\neg$   | $\neg$   | $\neg$        | $\neg$    |          |
|              | 29                         |               |                                                  |              |                |          |                |          |               |          |           |             | 79       |                 | T        | $\neg \vdash$ | T                                       |                                                                             | $\top$   |                                                  |      |          | 129        |                                                  |                 | T        |          | $\neg$   |          | $\neg$        | $\neg$    | $\neg$   |
|              | 29<br>30                   |               |                                                  |              |                |          |                |          |               |          |           |             | 80       | П               |          |               |                                         |                                                                             |          |                                                  |      |          | 130        |                                                  |                 | T        |          | T        |          | П             | $\exists$ |          |
|              | 311                        |               |                                                  |              |                |          |                |          |               |          |           |             | 81       | П               |          |               |                                         |                                                                             |          |                                                  | Ī    |          | 131        |                                                  |                 |          |          | П        |          |               | $\Box$    |          |
|              | 32                         |               |                                                  |              |                |          |                |          |               |          |           |             | 82       |                 |          |               |                                         |                                                                             |          |                                                  |      |          | 132        |                                                  |                 |          |          | $\Box$   |          |               |           |          |
|              | 33                         |               |                                                  |              |                |          |                |          |               |          |           |             | 83       |                 |          |               |                                         |                                                                             |          |                                                  |      |          | 133        |                                                  |                 |          |          |          |          | $\perp$       | $\Box$    |          |
|              | 32<br>33<br>3 <del>4</del> |               | _                                                | $oxed{\Box}$ | Ш              | Ш        |                |          |               |          |           |             | 84       | Ш               | $\perp$  |               |                                         |                                                                             |          | Ш                                                |      |          | 134        | Ш                                                |                 | $\perp$  |          | _        |          |               | Ц         |          |
|              | 35                         |               |                                                  | L_           | <u> </u>       | Ш        | Ш              |          | Ш             |          |           |             | 85       | Ш               | $\perp$  | $\perp$       | _                                       | $\sqcup$                                                                    |          |                                                  |      |          | 135        |                                                  |                 | $\perp$  | $\perp$  | _        | _        | ightharpoonup |           | _        |
|              | 36                         | _             | L                                                | L.           | Щ              | Щ        | Ш              | ·        | $\Box$        |          |           |             | 86       | $\sqcup$        | 4        | $\bot$        | ↓_                                      | $\perp$                                                                     | $\bot$   | $\sqcup$                                         |      |          | 136        |                                                  | $\sqcup$        | _        | $\dashv$ |          | _        | _             | _         |          |
|              | 37                         |               | <u> </u>                                         | Ь.,          | _              | Ш        | Ш              |          | Щ             |          |           | ļ           | 87       | $\sqcup$        | $\perp$  | $\bot$        | ـــ                                     | $\sqcup \bot$                                                               | $\perp$  | $\sqcup$                                         |      |          | 137        |                                                  |                 | 4        | _        |          | _        | $\dashv$      | _         | _        |
| <u> </u>     | 38                         | <u> </u>      | <b>I</b> —                                       | <u> </u>     | _              | Щ        | Ш              | Щ        | $\sqcup$      | _        |           |             | 88       | $\sqcup$        | $\perp$  | 4             | <del> </del>                            | $\sqcup \bot$                                                               |          | $\sqcup$                                         |      |          | 138        | Щ                                                | $\sqcup$        | _        | _        | ļ        |          | _             | _         | $\dashv$ |
|              | 39                         | _             | <u> </u>                                         | $\vdash$     | _              | $\sqcup$ | $\vdash$       |          |               | _        |           |             | 89       | $\sqcup$        | 4        | 4             | ╄                                       | $-\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!$ | -        | $\sqcup$                                         |      |          | 139        |                                                  | 4               | 4        | 4        | _        | _        | $\dashv$      | 4         |          |
| <u> </u>     | 40                         | _             | <u> </u>                                         | $\vdash$     | H              | Н        | Ŀ              | Щ        | $\vdash$      | _        |           | <u> </u>    | 90       | $\vdash \vdash$ | +        | _ _           | 4                                       | $\vdash$                                                                    | $\dashv$ | <b> </b>                                         |      |          | 140        |                                                  | -               | 4        | -        | 4        | _        | _             | 4         | _        |
|              | 41                         | _             | <u> </u>                                         | _            | Н              | Н        | Ш              | Щ        | _             | _        |           | <u> </u>    | 91       | $\sqcup$        | +        | +             | +                                       | -                                                                           | -        | $\square$                                        | ░.   |          | 141        |                                                  | $\vdash$        | +        | 4        |          | _        | $\dashv$      |           | _        |
|              | 42                         | <u> </u>      | ├                                                | -            | -              | Н        | Н              | $\vdash$ | -             |          |           |             | 92       | $\vdash$        | +        | _             | +                                       | $\vdash$                                                                    | +        | <del>     </del>                                 |      |          | 142        | Н                                                |                 | $\dashv$ | _        |          |          | $\dashv$      |           | $\dashv$ |
| <u> </u>     | 43                         | _             | -                                                | $\vdash$     | $\vdash\vdash$ | Н        | Н              | Н        | $\dashv$      | _        |           | $\vdash$    | 93       | $\vdash$        | $\dashv$ | -             | +                                       |                                                                             | +        | +-                                               |      |          | 143        | $\vdash$                                         | $\vdash$        | +        | 4        |          |          | $\dashv$      | $\dashv$  | $\dashv$ |
| <b> </b>     | 44<br>45                   |               | <del> </del>                                     | $\vdash$     | H              | Н        | H              | Н        | $\dashv$      | -        |           |             | 94<br>95 | -               | +        | +             | +-                                      | -                                                                           | +        | +                                                |      |          | 144<br>145 | $\vdash$                                         | $\vdash$        | +        | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$      | $\dashv$  | $\dashv$ |
| <del> </del> | 46                         | _             |                                                  | H            | $\vdash$       | Н        | Н              | $\vdash$ | $\dashv$      |          |           |             | 96       | $\vdash$        | +        | +-            | +-                                      |                                                                             |          | H                                                | ŀ    |          | 146        | $\vdash$                                         | -+              | $\dashv$ | $\dashv$ | -        | $\dashv$ | $\dashv$      | $\dashv$  | $\dashv$ |
| $\vdash$     | 47                         | <u> </u>      | -                                                | $\vdash$     |                | Н        | $\vdash$       | $\vdash$ | $\dashv$      | -        |           |             | 97       | $\vdash$        | +        | +             | +-                                      |                                                                             | +        | H                                                | ŀ    |          | 147        | $\vdash$                                         | $\dashv$        | +        | $\dashv$ | $\dashv$ |          | $\dashv$      | $\dashv$  | $\dashv$ |
| _            | 47                         | -             | $\vdash$                                         | $\vdash$     | -              | $\vdash$ | $\vdash$       | -        | $\vdash$      |          |           |             | 98       | $\vdash$        | $\dashv$ | +             | +-                                      | -                                                                           | +        | H                                                | ŀ    |          | 148        | -                                                | -               | $\dashv$ | -        |          |          | $\dashv$      | $\dashv$  | $\dashv$ |
|              | 49                         | _             | $\vdash$                                         | $\vdash$     |                | $\vdash$ |                |          |               | -        |           | _           | 99       | $\vdash \vdash$ | +        | +             | +-                                      | -                                                                           | +        | H                                                | ŀ    |          | 149        | $\vdash$                                         | -               | +        | +        | $\dashv$ | -        | $\dashv$      | $\dashv$  | ᅴ        |
| -            | 50                         |               | <del>                                     </del> | Н            |                | $\vdash$ | $\vdash$       | $\vdash$ | $\dashv$      | $\dashv$ |           |             | 100      |                 | $\dashv$ | +             | +                                       | -                                                                           |          | ++                                               | ŀ    | -        | 150        | <del>                                     </del> | -+              | +        | -        | -        | $\dashv$ | $\dashv$      | $\dashv$  | 一        |
| Щ_           | , 50                       | _             | L                                                |              | ш              | -        | ш              |          |               |          | . : : : : | L           | 100      | ᄔ               |          |               | نــــــــــــــــــــــــــــــــــــــ | L                                                                           |          | :::لــــــــــــــــــــــــــــــــــ           | ···L | 1        | 100        | ш                                                |                 |          |          |          |          | ᆚ             | ᆚ         |          |